

## Technical Data Sheet

### *Polyflam* RPP 1058-1676 STRYKER WTWI



Polypropylene, Homopolymer

#### Product Description

Homopolymer polypropylene flame retardant with a V-2 flammability rating.

**Processing Method** Injection Molding

**Additive** Flame Retardant

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                       | 4.0 to 7.0    | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 0.95          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength at Yield, (50 mm/min)                 | 30.0          | MPa               | ASTM D638   |
| Flexural Modulus, (1.3 mm/min)                         | 1200          | MPa               | ASTM D790   |
| Tensile Elongation at Break, (50 mm/min)               | 200           | %                 | ASTM D638   |
| <b>Impact</b>                                          |               |                   |             |
| Notched Izod Impact                                    | 30            | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 55            | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 95            | °C                | ASTM D648   |
| RTI Elec, (0.8 to 3.0 mm)                              | 105           | °C                | UL 746B     |
| RTI Imp, (0.8 to 3.0 mm)                               | 105           | °C                | UL 746B     |
| RTI Str, (0.8 to 3.0 mm)                               | 105           | °C                | UL 746B     |
| <b>UL Information</b>                                  |               |                   |             |
| Flame Rating                                           |               |                   |             |
| (1.5 mm)                                               | V-2           |                   | UL 94       |
| (3.0 mm)                                               | V-2           |                   | UL 94       |
| (0.75 mm)                                              | V-2           |                   | UL 94       |